

# PATENT SPECIFICATION

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## COMPLETE SPECIFICATION.



### Improvements in or relating to Vaginal Dilating Bags.

I, CESARE POLEMONDO TOMASULO, of 52, King Street, New York, County of New York, and State of New York, United States of America, a citizen of the United States of America, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 This invention relates to a therapeutic device for the treatment of uterine ailments.

It has previously been proposed to provide a surgical device comprising an inflatable cushion adapted to be inserted in the vagina to hold in proper position a surrounding bag-like absorbent mantle constituting a dressing. It has also been proposed to provide a device for conveying ointment, powder or the like to an internal part of a human body, such as the vagina, the said device comprising a pipe provided at one end thereof with means for supplying compressed air thereto and at the other end with an inflatable body drawn normally into the pipe but after being provided with the medium and introduced into the desired part with the pipe is moved forward and expanded by the pressure of the air so as to deposit the medium on the sides of the part to be treated.

According to this invention, there is provided a therapeutic device for the treatment of uterine ailments, comprising a hollow plug including a tapering body, an outer flange and a stem, a tube coupled to the stem of the plug and an expansible balloon for the reception of warm water, the said balloon being attached to the body of the plug and adapted to be folded and stowed within the said body. The device may have associated therewith tubes and an air pump as accessories, one of the vessels being adapted to receive the warm water whereby the balloon is expanded and the other vessel being adapted to receive the water from the balloon when it is required to replace the water or to collapse the balloon prior to its removal after treatment.

While the drawings illustrate a pre-  
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ferred embodiment of the invention it is to be understood that in adapting the means to meet specific needs and requirements, the design may be varied and such other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings hereto attached, in which,

Figure 1 is a diagrammatic view of a therapeutic appliance embodying the invention and showing the rubber balloon expanded, and

Figure 2 is an enlarged sectional view of the hollow plug with the rubber balloon folded and located therein for convenience of placing the article in position.

Corresponding and like parts are referred to in the following description and designated in both views of the drawings by like reference characters.

The appliance embodies a hollow plug of suitable material, such as aluminium, and comprises a body portion 1, an outer flange 2, and a stem 3, which tapers slightly and is corrugated to make a firm connection with a rubber tube 4. The body portion 1 of the plug tapers to facilitate the introduction thereof into the duct, or opening when adjusting the device for service. The outer flange 2 provides a stop to limit the movement of the plug when placing it in position. A rubber balloon 5, such as generally provided for inflation has its neck portion slipped upon the body portion 1 of the plug and made fast thereto by means of a suitable binder 6 which usually consists of a thread, or other filament. The base of the body 1 adjacent the outer flange 2 is contracted to provide a seat for receiving the binder 6 and the portion of the neck of the balloon confined thereby. The plug is of a size to admit of the body portion 1 receiving the balloon 5, as indicated most clearly in Figure 2, and when the balloon is thus folded within the body of the plug the latter with the balloon attached, may be conveniently and easily placed within

the opening or duct of the part to be treated.

Forming a part of the apparatus are two vessels 7 and 8 which may consist of bottles or jars of suitable size, the vessel 7 being designed to contain the warm water for expanding the balloon 5 and the vessel 8 receiving the water discharged from the balloon. An induction tube 9 is associated with the vessel 7 and an eduction tube 10 is associated with the vessel 8. A Y or branched coupling 11 connects the tubes 9 and 10 with the tube 4. Each of the tubes 9 and 10 is provided with a clip 12 for controlling the flow of the water therethrough. The clips 12 may be of any approved construction generally employed in connection with the tubes of fountain syringes. A stopper 13 closes the vessel 7 and a tube 14 of rigid material extends therethrough within a short distance of the bottom of the vessel and the induction tube 9 is coupled to its projecting end. A tube 15 of rigid material is also connected with the stopper 13 and terminates within the upper portion of the vessel 7. A suitable air pump 16 is connected with the tube 15 by means of a tube 17 and may be of any construction and usually consists of a bulb, such as employed in connection with syringes, atomizers and analogous articles. The tube 10 extends into the vessel 8 to discharge the water from the balloon therein when withdrawing the contents of the said balloon.

In the practical application of the invention the bottle or vessel 7 is supplied with warm water and the balloon 5 is folded into the body 1 of the plug after which the latter is introduced into the duct of the part to be treated. The pump 16 is now manipulated which results in forcing the water from the vessel 7 through the tubes 9 and 4 into the balloon 5 which is thereby expanded so as to extend into the vaginal fornices and operate as a true poultice, thereby obviating the inconveniences incident to use of the ordinary douche. As a result the patient is enabled to stand a high temperature and the vaginal flora is not disturbed.

When expanding the balloon the outflow through the eduction tube 10 is cut off by means of the clip applied thereto. After the balloon has been properly expanded the clip applied to the induction tube 9 is operated to prevent outflow therethrough. When the water in the balloon cools it may be drawn off into the vessel 8 and the water thus withdrawn may be replaced by manipulating the pump 16, the clip applied to the induction tube 9 being operated to insure a flow of the water therethrough. When it is required to withdraw the device the balloon 5 is permitted to collapse by drawing off the water therefrom into the vessel 8.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A therapeutic device for the treatment of uterine ailments, the said device comprising a hollow plug including a tapering body, an outer flange and a stem, a tube coupled to the stem of the plug and an expansible balloon for the reception of warm water, the said balloon being attached to the body of the plug and adapted to be folded and stowed within the said body.

2. A device according to Claim 1, having associated therewith vessels, tubes and an air pump, one of the vessels being adapted to receive the warm water whereby the balloon is expanded and the other vessel being adapted to receive the water from the balloon when it is required to replace the water or to collapse the balloon prior to its removal after treatment.

3. A therapeutic device for the treatment of uterine ailments, substantially as hereinbefore described with reference to the accompanying drawing.

Dated this 15th day of August, 1927.

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*[This Drawing is a reproduction of the Original on a reduced scale.]*

